

WHAT IS CLAIMED IS:

1. An electric surgery apparatus comprising:

a high frequency power generating unit capable of generating a high frequency power to treat living-body tissue;

a treatment unit capable of treating the living-body tissue based on the high frequency power generated by the high frequency power generating unit;

an intermittent output control unit for converting the high frequency power into intermittent output;

a subject tissue determining unit for determining subject tissue based on change of the high frequency power supplied to the treatment unit; and

an intermittent output setting unit capable of setting output values and the number of times of output controlled by the intermittent output control unit based on the determined results of the subject tissue determining unit.

2. The electric surgery apparatus according to Claim 1, wherein the subject tissue to be determined by the subject tissue determining unit is the diameter of blood vessels.

3. The electric surgery apparatus according to Claim 2, wherein the subject tissue determining unit determines the

subject tissue based on the maximal current value flowing to the subject tissue and the time up to the maximal current value.

4. An electric surgery apparatus comprising:

high frequency power generating means capable of generating a high frequency power to treat living-body tissue;

treatment means capable of treating the living-body tissue based on the high frequency power generated by the high frequency power generating means;

intermittent output control means for converting the high frequency power into intermittent output;

subject tissue determining means for determining subject tissue based on change of the high frequency power supplied to the treatment means; and

intermittent output setting means capable of setting output values and the number of times of output controlled by the intermittent output control means based on the determined results of the subject tissue determining means.

5. A high frequency power output control method for an electric surgery apparatus, the method comprising:

an output value setting step for setting output values of a high frequency power to be supplied to subject tissue;

an output period setting step for setting output periods of the high frequency power to be supplied to the subject tissue;

a maximal current value detecting step for detecting a maximal current value flowing to the subject tissue based on the output values and the output periods;

a subject tissue determining step for determining the subject tissue based on the maximal current value detected by the maximal current value detecting step; and

a controlling step for controlling high frequency power output and the number of times of output according to the subject tissue detected by the subject tissue determining step.

6. An electric surgery apparatus comprising:

a high frequency power generating unit for generating a high frequency power;

a detecting unit for detecting subject tissue based on the high frequency power;

an output control unit for controlling output of the high frequency power; and

an output change control unit for varying the high frequency power;

wherein the output control unit controls the output change control unit so as to repeat output/pausing of the

high frequency power, and controls set output electric power and the number of times of output based on detected information from the detecting unit.

7. The electric surgery apparatus according to Claim 6, wherein the subject tissue to be detected by the detecting unit is the diameter of blood vessels.

8. The electric surgery apparatus according to Claim 6, wherein the detecting unit detects the subject tissue based on the maximal current value flowing to the subject tissue and the time up to the maximal current value.

9. The electric surgery apparatus according to Claim 6, further comprising a factor eliminating unit for eliminating error factors relating to the main unit configuration of the electric surgery apparatus in the event that the detecting unit detects the subject tissue based on the maximal current value flowing to the subject tissue and the time up to the maximal current value.

10. An electric surgery apparatus comprising:  
high frequency power generating means for generating a high frequency power;  
detecting means for detecting subject tissue based on

the high frequency power;

output control means for controlling output of the high frequency power; and

output change control means for varying the high frequency power;

wherein the output control means controls the output change control means so as to repeat output/pausing of the high frequency power, and controls setting output and the number of times of output based on detected information from the detecting means.

11. An electric surgery apparatus comprising:

a high frequency power generating unit for generating a high frequency power;

a treatment unit for treating living-body tissue based on the high frequency power generated from the high frequency power generating unit;

a detecting unit for detecting change of the high frequency power supplied to the treatment unit;

an output setting unit for setting the number of times of intermittent output and output values of the high frequency power based on the detected results from the detecting unit; and

a control unit for controlling a high frequency power generated from the high frequency power generating unit

based on the setting value set by the output setting unit.

12. A control method for an electric surgery apparatus including a high frequency power generating unit for generating a high frequency power, and a treatment unit for treating living-body tissue with a high frequency power generated by the high frequency power generating unit, the method comprising:

a detecting step for detecting change of a high frequency power supplied to the treatment unit;

an output setting step for setting the number of times of intermittent output and output values of the high frequency power based on detected results in the detecting step; and

a controlling step for controlling a high frequency power generated from the high frequency generating unit based on the setting value set in the output setting step.